

What is claimed is:

1. A large width single-ply heat-weldable roof membrane comprising:
at least two sheets of a thermoplastic polyolefin, said sheets having
side edges; and
5 one fold strip of a thermoplastic elastomer bonded to said sheets to
join said sheets; wherein said thermoplastic elastomer consists of a highly
cross-linked rubbery polymer and a thermoplastic polymer.
- 10 2. The roof membrane of Claim 1 wherein the rubbery polymer is
comprised of ethylene-propylene-diene polymer, ethylene-propylene
copolymer rubber (EPR), ethylene octene and the thermoplastic polyolefin is
comprised of polypropylene.
- 15 3. The roof membrane of Claim 1 wherein the thermoplastic polyolefin
is comprised of uncrosslinked polyolefins that are thermoplastic.
4. The roof membrane of Claim 3 wherein the thermoplastic polyolefins
are made by blending ethylene-propylene polymers with polypropylene.
- 20 5. The roof membrane of Claim 1 wherein the thermoplastic polyolefin
is a terpolymer of ethylene, propylene and diene monomers.
- 25 6. The roof membrane of Claim 5 wherein the thermoplastic polyolefin
has from about 60 to about 95 weight percent ethylene and from about 0 to
about 12 weight percent of the diene with the balance of the polymer being
propylene or the like.

7. The roof membrane of Claim 1 wherein said sheets are positioned adjacent one another such that a side edge of each sheet is contiguous wherein said fold strip overlaps said contiguous side edges.

5 8. The roof membrane of Claim 7 wherein the rubbery polymer is comprised of ethylene-propylene-diene termonomer and the thermoplastic polymer is comprised of polypropylene.

10 9. The roof membrane of Claim 7 wherein the thermoplastic polyolefin is comprised of uncrosslinked polyolefins that are thermoplastic.

10. The roof membrane of Claim 9 wherein the thermoplastic polyolefins are made by blending ethylene-propylene polymers with polypropylene.

15 12. The roof membrane of Claim 7 wherein the thermoplastic polyolefin is a terpolymer of ethylene, propylene and diene monomers.

20 13. The roof membrane of Claim 12 wherein the thermoplastic polyolefin has from about 60 to about 95 weight percent ethylene and from about 0 to about 12 weight percent of the diene with the balance of the polymer being propylene or the like.

25 14. The roof membrane of Claim 1 wherein said fold strip is positioned between said sheets and bonded to a side edge of said sheets to form a large width single-ply heat-weldable roof membrane.

15. The roof membrane of Claim 14 wherein the rubbery polymer is

comprised of ethylene-propylene-diene termonomer and the thermoplastic polymer is comprised of polypropylene.

5 15. The roof membrane of Claim 14 wherein the thermoplastic polyolefin is comprised of uncrosslinked polyolefins that are thermoplastic.

10 16. The roof membrane of Claim 15 wherein the thermoplastic polyolefins are made by blending ethylene-propylene polymers with polypropylene.

17. The roof membrane of Claim 14 wherein the thermoplastic polyolefin is a terpolymer of ethylene, propylene and diene monomers.

15 18. The roof membrane of Claim 17 wherein the thermoplastic polyolefin has from about 60 to about 95 weight percent ethylene and from about 0 to about 12 weight percent of the diene with the balance of the polymer being propylene or the like.